

FIG. 1

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5' - GATAGTGTGTGTCCCAAGGAAAAATATCCACCTCAAAATAATTCGATTGCTGTACC -
+-----+-----+-----+-----+-----+-----+-----+-----+
D S V C P Q G K Y I H P Q N N S I C C T -

- AAGTGCCACAAAGGAACCTACTTGTACAATGACTGTCCAGGCCCGGGCAGGATACGGAC -
+-----+-----+-----+-----+-----+-----+-----+-----+
K C H K K G T Y L Y N D C P G P G Q D T D -

- TGCAGGGAGTGTGAGAGCGGCTCCTTCACCGCTTCAGAAAACCACCTCAGACACTGCCTC -
+-----+-----+-----+-----+-----+-----+-----+-----+
C R E C E S G S F T A S E N H L R H C L -

- AGCTGCTCCAAATGCCGAAAGGAAATGGGTCAGGTGGAGATCTCTTCTTGACAGTGGAC -
+-----+-----+-----+-----+-----+-----+-----+-----+
S C S K C R K E M G Q V E I S S C T V D -

- CGGGACACCGTGTGTGGCTGCAGGAAGAACCAGTACCGGCATTATTGGAGTGAACCTT -
+-----+-----+-----+-----+-----+-----+-----+-----+
R D T V C G C R K N Q Y R H Y W S E N L -

- TTCCAGTGTCTCAATTGCAGCCTCTGCCTCAATGGGACCGTGCACCTCTCCTGCCAGGAG -
+-----+-----+-----+-----+-----+-----+-----+-----+
F Q C F N C S L C L N G T V H L S C Q E -

- AAACAGAACACCGTGTGCACCTGCCATGCAGGTTTCTTTCTAAGAGAAAACGAGTGTGTC -
+-----+-----+-----+-----+-----+-----+-----+-----+
K Q N T V C T C H A G F F L R E N E C V -

- TCCTGTAGTAACGTGAAGAAAAGCCTGGAGTGCACGAAGTTGTGCCTACCCAGATTGAG -
+-----+-----+-----+-----+-----+-----+-----+-----+
S C S N C K K S L E C T K L C L P Q I E -

- AAT - 3'
+-----+
N *

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FIG.2

5' -CATATGGACAGCGTTTGCCCCCAAGGAAAATACATCCACCCTCAAAATAATTCGATTTC-
 +-----+-----+-----+-----+-----+-----+-----+-----+
 M D S V C P Q G K Y I H P Q N N S I C -
 -TGTACCAAGTGCCACAAAGGAACCTACTTGTACAATGACTGTCCAGGCCCGGGGCAGGAT-
 +-----+-----+-----+-----+-----+-----+-----+-----+
 C T K C H K G T Y L Y N D C P G P G Q D -
 -ACGGACTGCAGGGAGTGTGAGAGCGGCTCCTTCACCGCTTCAGAAAACCACCTCAGACAC-
 +-----+-----+-----+-----+-----+-----+-----+-----+
 T D C R E C E S G S F T A S E N H L R H -
 -TGCCTCAGCTGCTCCAAATGCCGAAAGGAAATGGGTGAGGTGGAGATCTCTTCTGCACA-
 +-----+-----+-----+-----+-----+-----+-----+-----+
 C L S C S K C R K E M G Q V E I S S C T -
 -GTGGACCGGGACACCGTGTGTGGCTGCAGGAAGAACCAGTACCGGCATTATTGGAGTGAA-
 +-----+-----+-----+-----+-----+-----+-----+-----+
 V D R D T V C G C R K N Q Y R H Y W S E -
 -AACCTTTTCAGTGTCTGCTGATAGGATCC-3'
 +-----+-----+-----+-----+-----+-----+-----+-----+
 N L F Q C F C *

FIG.3

5' - CATATGGACA GCGTTTGCCCCCAAGGAAAATATATCCACCCCTCAAAATAATTGATTTGC -
 +-----+-----+-----+-----+-----+-----+-----+-----+
 M D S V C P Q G K Y I H P Q N N S I C -
 -TGTACCAAGTGCCACAAAGGAACCTACTTGTACAATGACTGTCCAGGCCCGGGGCAGGAT-
 +-----+-----+-----+-----+-----+-----+-----+-----+
 C T K C H K G T Y L Y N D C P G P G Q D -
 -ACGGA CTGCAGGGAGTGTGAGAGCGGCTCCTTCACCGCTTCAGAAAACCACTCAGACAC-
 +-----+-----+-----+-----+-----+-----+-----+-----+
 T D C R E C E S G S F T A S E N H L R H -
 -TGCCTCAGCTGCTCCAAATGCCGAAAGGAAATGGGTCAGGTGGAGATCTCTTCTTGCACA-
 +-----+-----+-----+-----+-----+-----+-----+-----+
 C L S C S K C R K E M G Q V E I S S C T -
 -GTGGACCGGGACACCGTGTGTGGCTGCAGGAAGAACCAGTACCGGCATTATTTGGAGTGAA-
 +-----+-----+-----+-----+-----+-----+-----+-----+
 V D R D T V C G C R K N Q Y R H Y W S E -
 -AACCTTTTCCAGTGCTTCAATTGCTCTCTGTAAAAGCTT-3'
 +-----+-----+-----+-----+-----+-----+-----+-----+
 N L F Q C F N C S L *

FIG.4

5' -CATATGGACAGCGTTTGGCCCCAAGGAAATATATCCACCCTCAAATAATTCGATTTCG-
 +-----+-----+-----+-----+-----+-----+-----+-----+
 M D S V C P Q G K Y I H P Q N N S I C -

-TGTACCAAGTGCCACAAAGGAACCTACTTGTACAATGACTGTCCAGGCCCGGGGCAGGAT-
 +-----+-----+-----+-----+-----+-----+-----+-----+
 C T K C H K G T Y L Y N D C P G P G Q D -

-ACGGACTGCAGGGAGTGTGAGAGCGGCTCCTTCACCGCTTCAGAAAACCACCTCAGACAC-
 +-----+-----+-----+-----+-----+-----+-----+-----+
 T D C R E C E S G S F T A S E N H L R H -

-TGCCTCAGCTGCTCCAAATGCCGAAAGGAAATGGGTGAGATCTCTTCTTGCACA-
 +-----+-----+-----+-----+-----+-----+-----+-----+
 C L S C S K C R K E M G Q V E I S S C T -

-GTGGACCGGGACACCGTGTGTGGTTGCAGGAAGAACCAGTACCGGCATTATTGGAGTGAA-
 +-----+-----+-----+-----+-----+-----+-----+-----+
 V D R D T V C G C R K N Q Y R H Y W S E -

-AACCTTTTCCAGTGCTTCAATTAATAGGGATCC-3'
 +-----+-----+-----+-----+-----+-----+-----+-----+
 N L F Q C F N *

FIG.5

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5' -CATATGTATATCCACCCTCAAAATAATTGCGATTTGCTGTACCAAGTGCCACAAAGGAACC-
+-----+-----+-----+-----+-----+-----+-----+-----+
  M  Y  I  H  P  Q  N  N  S  I  C  C  T  K  C  H  K  G  T  -
- TACTTGTACAATGACTGTCCAGGCCCGGGGCAGGATACGGACTGCAGGGAGTGTGAGAGC-
+-----+-----+-----+-----+-----+-----+-----+-----+
  Y  L  Y  N  D  C  P  G  P  G  Q  D  T  D  C  R  E  C  E  S  -
- GGCTCCTTCACCGCTTCAGAAAACCACCTCAGACACTGCCTCAGCTGCTCCAAATGCCGA-
+-----+-----+-----+-----+-----+-----+-----+-----+
  G  S  F  T  A  S  E  N  H  L  R  H  C  L  S  C  S  K  C  R  -
- AAGGAAATGGGTCAGGTGGAGATCTCTTCTTGACAGTGGACCGGGACACCGTGTGTGGC-
+-----+-----+-----+-----+-----+-----+-----+-----+
  K  E  M  G  Q  V  E  I  S  S  C  T  V  D  R  D  T  V  C  G  -
- TGCAGGAAGAACCAGTACCGGCATTATTGGAGTGAAAACCTTTTCCAGTGCCTCAATTGC-
+-----+-----+-----+-----+-----+-----+-----+-----+
  C  R  K  N  Q  Y  R  H  Y  W  S  E  N  L  F  Q  C  F  N  C  -
- TCTCTGTAAAAGCTT - 3'
+-----+-----+-----+-----+-----+-----+-----+-----+
  S  L  *

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FIG.6

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5' -CATATGTGTACCAAGTGCCACAAAGGAACCTACTTGTACAATGACTGTCCAGGCCCGGGG-
+-----+-----+-----+-----+-----+-----+-----+-----+
  M  C  T  K  C  H  K  G  T  Y  L  Y  N  D  C  P  G  P  G  -
- CAGGATACGGACTGCAGGGAGTGTGAGAGCGGCTCCTTCACCGCTTCAGAAAACCACCTC
+-----+-----+-----+-----+-----+-----+-----+-----+
  Q  D  T  D  C  R  E  C  E  S  G  S  F  T  A  S  E  N  H  L  -
- AGACACTGCCTCAGCTGCTCCAAATGCCGAAAGGAAATGGGTCAGGTGGAGATCTCTTCT-
+-----+-----+-----+-----+-----+-----+-----+-----+
  R  H  C  L  S  C  S  K  C  R  K  E  M  G  Q  V  E  I  S  S  -
- TGCACAGTGGACCGGGACACCGTGTGTGGCTGCAGGAAGAACCAGTACCGGCATTATTGG-
+-----+-----+-----+-----+-----+-----+-----+-----+
  C  T  V  D  R  D  T  V  C  G  C  R  K  N  Q  Y  R  H  Y  W  -
- AGTGAAAACCTTTTCCAGTGCTTCAATTGCTCTCTGTAAAAGCTT-3'
+-----+-----+-----+-----+-----+-----+-----+-----+
  S  E  N  L  F  Q  C  F  N  C  S  L  *

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FIG. 8

5' -TTGCCCGCCCAGGTGGCATTATACACCTACGCCCCGGAGCCCGGGAGCACATGCCGGCTC-
 +-----+-----+-----+-----+-----+-----+
 L P A Q V A F T P Y A P E P G S T C R L -
 -AGAGAACTACTATGACCAGACGCTCAGATGTGCTGCAGCAAGTGCTCGCCGGGCCAACAT-
 +-----+-----+-----+-----+-----+-----+
 R E Y Y D Q T A Q M C C S K C S P G Q H -
 -GCAAAAGTCTTCTGTACCAAGACCTCGGACACCGTGTGTGACTCCTGTGAGGACAGCACA-
 +-----+-----+-----+-----+-----+-----+
 A K V F C T K T S D T V C D S C E D S T -
 -TACACCCAGCTCTGGAAGTGGGTTCCTGAGTGTGAGCTGTGGCTCCCGCTGTAGCTCT-
 +-----+-----+-----+-----+-----+-----+
 Y T Q L W N W V P E C L S C G S R C S S -
 -GACCAGGTGAAACTCAAGCCTGCACCTCGGGAACAGAACCGCATCTGCACCTGCAGGCCC-
 +-----+-----+-----+-----+-----+-----+
 D Q V E T Q A C T R E Q N R I C T C R P -
 -GGCTGGTACTGCGCGCTGAGCAAGCAGGAGGGGTGCCGGCTGTGCGCGCCGCTGCGCAAG-
 +-----+-----+-----+-----+-----+-----+
 G W Y C A L S K Q E G C R L C A P L R K -
 -TGCCGCCCCGGGCTTCGGCGTGGCCAGACCAGGAAGTAAACATCAGACGTGGTGTGCAAG-
 +-----+-----+-----+-----+-----+-----+
 C R P G F G V A R P G T E T S D V V C K -
 -CCCTGTGCCCCGGGACGTTCTCCAACACGACTTCATCCACGGATATTTGCAGGCCCCAC-
 +-----+-----+-----+-----+-----+-----+
 P C A P G T F S N T T S S T D I C R P H -
 -CAGATCTGTAACGTGGTGGCCATCCCTGGGAATGCAAGCAGGGATGCAGTCTGCACGTCC-
 +-----+-----+-----+-----+-----+-----+
 Q I C N V V A I P G N A S R D A V C T S -
 -ACGTCCCCACCCGGAGTATGGCCCCAGGGGAGTACACTTACCCAGCCAGTGTCCACA-
 +-----+-----+-----+-----+-----+-----+
 T S P T R S M A P G A V H L P Q P V S T -
 -CGATCCCAACACACGCAGCCAACTCCAGAAGCCAGCACTGCTCCAAGCACCTCCTTCTGT-
 +-----+-----+-----+-----+-----+-----+
 R S Q H T Q P T P E P S T A P S T S F L -
 -CTCCCAATGGGCCCCAGCCCCCAGCTGAAGGGAGCACTGGCGAC-3'
 +-----+-----+-----+-----+-----+-----+
 L P M G P S P P A E G S T G D *

FIG. 9

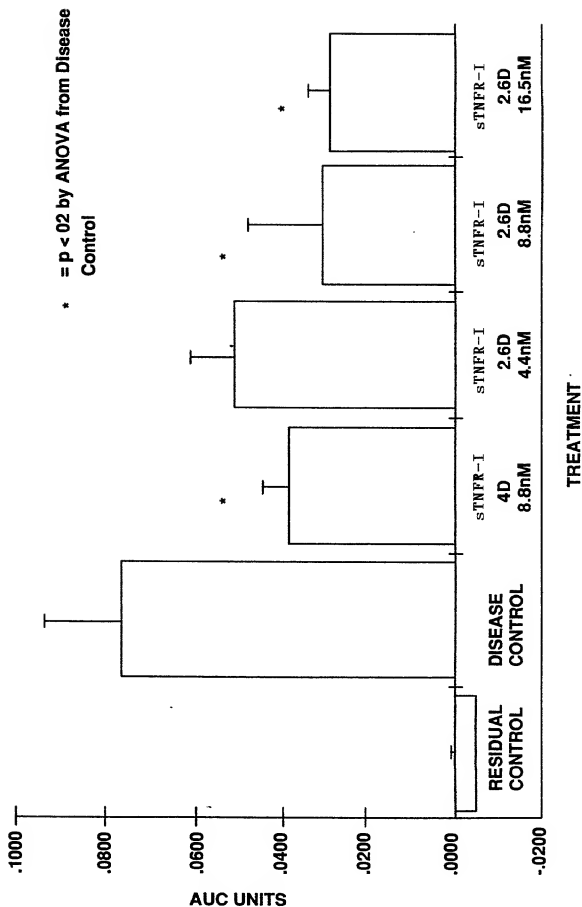


FIG. 10

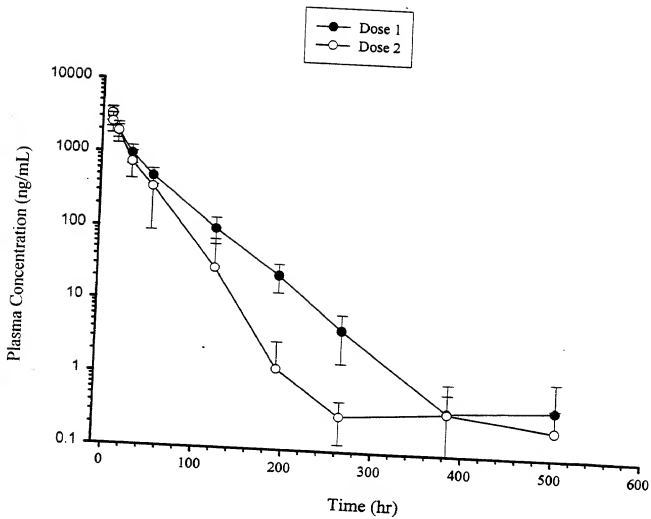


FIG. 11

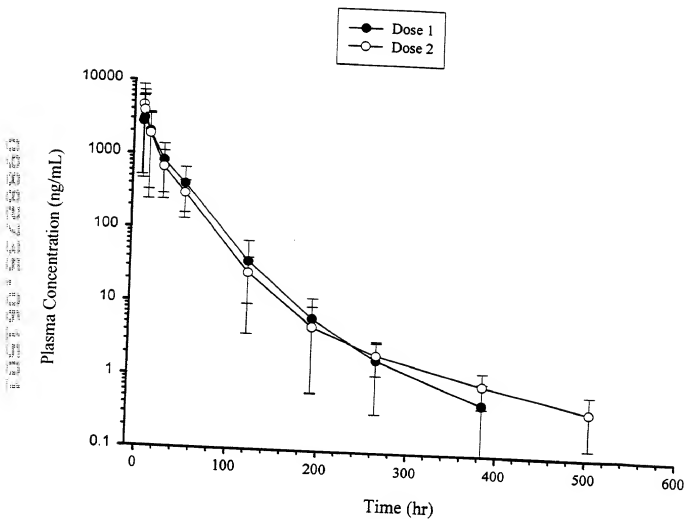


FIG. 12

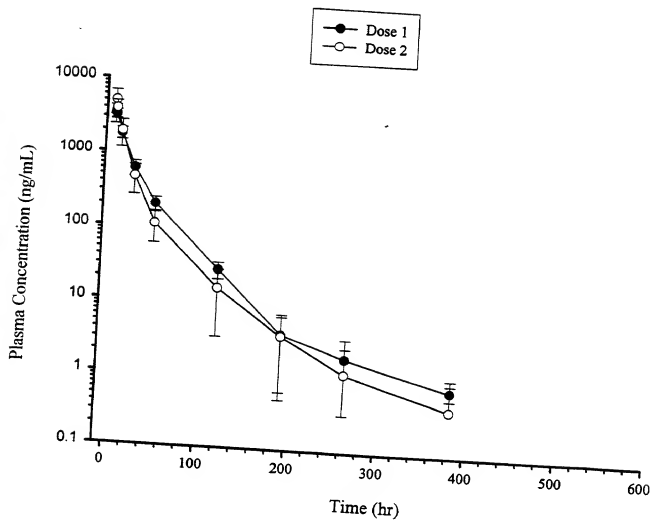


FIG. 13

